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On the basis of 60 kilograms as the weight of a man, as compared with 300 grams for the pigeon, a comparable dose of the activated material would be 10 grams of the solid on alternate days, or 5 grams per day. This is a quantity which could be conveniently taken either in capsules or as an aqueous suspension. The material is practically tasteless and odorless, and aside from the vitamine which it contains is an absolutely inert substance which would produce no noticeable effects on passage through the body.

In regard to the probable therapeutic value of the product here described, it should be mentioned that much evidence has been advanced to show that polyneuritis in birds is essentially the same disease as beriberi in man, consequently, it may be expected that the concentrated vitamine may prove to be an efficient remedy for beriberi. That it will be valuable in the treatment of pellagra can not be asserted until clinical tests on human cases have been made; it can only be said that if the source of the vitamine at present selected—viz, yeast—should happen not to be well chosen as regards pellagra, the method here described for concentrating the yeast vitamine probably could be applied equally effectively to some other raw product.

In conclusion it should be mentioned that the procedure here developed for yeast can be used with slight modifications in the estimation of the vitamine content of various food products. Experiments already under way upon the potato have demonstrated the applicability of the method.

PLAGUE-PREVENTION WORK CALIFORNIA.

The following report of plague-prevention work in California for the week ended January 22, 1916, was received from Surg. Boggess, of the United States Public Health Service, in charge of the work:

SAN FRANCISCO, CAL.		SAN FRANCISCO, CAL.—Continued.	
RAT PROOFING.		RAT PROOFING—continued.	
New buildings:		Old buildings—Continued.	
Inspections of work under construction.	187	Yards and passageways, planking removed.....	35
Basements concreted (square feet 59,680)	70	Cubic feet new foundation walls installed	8,800
Floors concreted (square feet, 19,670) ..	13	Concrete floors installed (square feet, 30,162)	44
Yards, passageways, etc. (square feet, 25,664)	109	Basements concreted (square feet, 36,725)	43
Total area of concrete laid (square feet).	105,014	Yards and passageways, etc., concreted (square feet, 15,060).....	92
Class A, B, and C (fireproof) buildings:		Total area concrete laid (square feet) ..	81,947
Inspections made.....	129	Floors rat proofed with wire cloth (square feet, 350).....	1
Roof and basement ventilators, etc., screened.....	547	Buildings razed	19
Wire screening used (square feet).....	2,650	New garbage cans stamped approved.....	508
Openings around pipes, etc., closed with cement.....	911	Nuisances abated.....	297
Sidewalk lens lights replaced.....	800		
Old buildings:			
Inspections made.....	503		
Wooden floors removed.....	43		

SAN FRANCISCO, CAL.—Continued.

OPERATIONS ON THE WATER FRONT.

Vessels inspected for rat guards.....	21
Reinspections made on vessels.....	36
New rat guards procured.....	21
Defective rat guards repaired.....	16
Rats trapped on wharves and water front.....	39
Rats trapped on vessels.....	22
Traps set on wharves and water front.....	196
Traps set on vessels.....	40
Vessels trapped on.....	12
Poisons placed on water front.....	3,600
Poisons placed within Panama-Pacific International Exposition grounds (pieces).....	88,000
Bait (bacon) used on water front and vessels (pounds).....	6
Amount of bread used in poisoning, water front (loaves).....	9
Pounds of poison used on water front.....	3

RATS COLLECTED AND EXAMINED FOR PLAGUE.

San Francisco:

Collected.....	427
Examined.....	329
Found infected.....	None.

Hollister:

Collected.....	11
Examined.....	11
Found infected.....	None.

Operations are being carried on on land owned by the People's Water Co., as follows:

CONTRA COSTA COUNTY.

Hopkins tract, 130 acres, treated with kilmol; 44 gallons kilmol used.

RECORD OF PLAGUE INFECTION.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	(¹)	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	(¹)	126 rats.
Berkeley.....	Aug. 28, 1907	(¹)	(¹)	None.
Los Angeles.....	Aug. 11, 1908	(¹)	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).....	Sept. 24, 1909	Oct. 17, 1909 ²	July 12, 1915	287 squirrels, 1 wood rat.
Contra Costa.....	July 13, 1915	(¹)	Nov. 12, 1915	1,597 squirrels.
Fresno.....	(¹)	(¹)	Oct. 27, 1911	1 squirrel.
Merced.....	(¹)	(¹)	July 12, 1911	5 squirrels.
Monterey.....	(¹)	(¹)	Apr. 10, 1914	6 squirrels.
San Benito.....	June 4, 1913	(¹)	Aug. 14, 1915	50 squirrels.
San Joaquin.....	Sept. 18, 1911	(¹)	Aug. 26, 1911	18 squirrels.
San Luis Obispo.....	(¹)	(¹)	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Aug. 31, 1910	(¹)	July 23, 1913	25 squirrels.
Santa Cruz.....	(¹)	(¹)	May 17, 1910	3 squirrels.
Stanislaus.....	(¹)	(¹)	June 2, 1911	13 squirrels.

¹ None.² Wood rat.

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, Stanislaus, San Benito, Monterey, Lassen and Modoc.

LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following report of plague-eradication work at New Orleans for the week ended February 5, 1916, was received from Surg. Creel, of the United States Public Health Service, in charge of the work:

OUTGOING QUARANTINE.

Vessels fumigated with sulphur.....	6
Vessels fumigated with carbon monoxide..	17
Vessels fumigated with cyanide gas.....	6
Sulphur used (pounds).....	671
Coke consumed in carbon-monoxide fumigation, pounds.....	21,600
Cyanide used in cyanide-gas fumigation, pounds.....	299
Sulphuric acid used in cyanide-gas fumigation, pints.....	449
Clean bills of health issued.....	31
Foul bills of health issued.....	3

FIELD OPERATIONS.

Rodents trapped.....	7,646
Premises inspected.....	7,335
Notices served.....	534
Poisons placed.....	84
Garbage cans installed.....	81

BUILDINGS RAT PROOFED.

By elevation.....	140
By marginal concrete wall.....	138
By concrete floor and wall.....	170
By minor repairs.....	235
Total buildings rat proofed.....	683

BUILDINGS RAT PROOFED—continued.

Concrete laid, square yards.....	5,464
Premises planking and shed flooring removed.....	156
Buildings demolished.....	173
Total buildings rat proofed to date (abated)	101,413

LABORATORY OPERATIONS.

Rodents received by species:	
<i>Mus rattus</i>	149
<i>Mus norvegicus</i>	861
<i>Mus alexandrinus</i>	150
<i>Mus musculus</i>	6,308
Wood rats.....	120
Musk rats.....	23
Putrid (included in enumeration of species).....	58
Total rodents received at laboratory.....	7,614
Rodents examined.....	1,858
Rats suspected of plague.....	148

PLAGUE RATS.

Case No. 277:	
Address, 2111 Chippewa Street.	
Captured, Jan. 8, 1916.	

PLAGUE RATS—continued.

Case No. 277—Continued.	
Diagnosis confirmed, Feb. 4, 1916.	
Treatment of premises: Intensive trapping.	
Rat proofing expedited.	
Case No. 278:	
Address, 4305 Annunciation Street.	
Captured, Jan. 25, 1916.	
Diagnosis confirmed, Feb. 4, 1916.	
Treatment of premises: Intensive trapping.	
Rat proofing expedited.	

PLAGUE STATUS TO FEB. 4, 1916.

Last case of human plague, Sept. 8, 1915.	
Last case of rodent plague, Feb. 4, 1916.	
Total number of rodents captured to Feb. 5.	598,786
Total number of rodents examined to Feb. 5	324,540
Total cases of rodent plague to Feb. 5, by species:	
<i>Mus musculus</i>	6
<i>Mus rattus</i>	13
<i>Mus alexandrinus</i>	11
<i>Mus norvegicus</i>	243
Total rodent cases to Feb. 5, 1916.....	278

WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following report of plague-eradication work at Seattle for the week ended January 29, 1916, was received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

RAT PROOFING.

New buildings reinspected.....	39
New buildings reinspected, concrete foundations.....	37
New buildings elevated.....	2
Old buildings inspected.....	2
Premises rat proofed, concrete, old buildings..	2
Floors concreted, old buildings (sq. ft. 3,675)...	2
Wooden floors removed, old buildings.....	2
Building razed.....	1

LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	10
Rodents trapped and killed.....	325
Total.....	335
Rodents examined for plague infection.....	205
Rodents proven plague infected.....	None.
Poison distributed (pounds).....	16
Bodies examined for plague infection.....	7
Bodies found plague infected.....	None.

CLASSIFICATION OF RODENTS.

<i>Mus rattus</i>	9
<i>Mus alexandrinus</i>	56
<i>Mus norvegicus</i>	162
<i>Mus musculus</i>	98

WATER FRONT.

Vessels inspected and histories recorded.....	7
New rat guards installed.....	8
Defective rat guards repaired.....	5
Port sanitary statements issued.....	38
The usual day and night patrol was maintained to enforce rat guarding and fending.	

MISCELLANEOUS WORK.

Rat-proofing notices sent to contractors, new buildings.....	7
Letters sent in re rat complaints.....	6
Lectures on sanitary measures.....	1

RODENTS EXAMINED IN EVERETT.

<i>Mus norvegicus</i> trapped.....	43
<i>Mus musculus</i> trapped.....	2
Total.....	45
Rodents examined for plague infection.....	44
Rodents proven plague infected.....	None.

¹ Indicates number of rodents the tissues of which were inoculated into guinea pigs. Most of them showed on necropsy only evidence of recent inflammatory process; practically none presented gross lesions characteristic of plague infection.

HAWAII—PLAGUE PREVENTION.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

Honolulu.

WEEK ENDED JAN. 22, 1916.

Total rats and mongoose taken.....	231	Classification of rats killed by sulphur dioxide:	
Rats trapped.....	1	Mus alexandrinus.....	3
Rats killed by sulphur dioxide.....	5	Mus rattus.....	2
Examined microscopically.....	212	Average number of traps set daily.....	984
Showing plague infection.....	0	Cost per rat destroyed.....cents..	32
Classification of rats trapped:		Last case rat plague, Aiea, 9 miles from Honolulu,	
Mus alexandrinus.....	99	Apr. 12, 1910.	
Mus musculus.....	70	Last case human plague, Honolulu, July 12, 1910.	
Mus norvegicus.....	43		
Mus rattus.....	19		

Hilo.

WEEK ENDED JAN. 15, 1916.

Rats and mongoose taken.....	2,936	Rats and mongoose plague infected.....	1
Rats trapped.....	2,890	Classification of rats trapped and found dead:	
Rats found dead.....	1	Mus norvegicus.....	398
Mongoose taken.....	45	Mus alexandrinus.....	427
Rats and mongoose examined macroscopically.....	2,936	Mus rattus.....	907
Rats and mongoose examined microscopically.....	1	Mus musculus.....	1,159
Rats and mongoose examined bacteriologically.....	1	Last case of rat plague, Paauhau Sugar Co., Jan. 18, 1916.	
		Last case of human plague, Paauhau Sugar Co., Dec. 16, 1915.	